

Title (en)
Vehicle arresting bed system

Title (de)
Fangbettsystem für Fahrzeuge

Title (fr)
Système de lit d'arrêt pour véhicules

Publication
EP 0910703 A1 19990428 (EN)

Application
EP 98908481 A 19980206

Priority
• US 9802326 W 19980206
• US 79697097 A 19970207

Abstract (en)
[origin: WO9835099A1] Vehicle arresting beds, for installation at the ends of aircraft runways, are effective to safely decelerate aircraft entering the bed. The arresting bed is assembled of a large number of blocks of cellular concrete (70) having predetermined compressive gradient strength, so that aircraft landing gear is subjected to drag forces effective to slow a variety of types of aircraft, while providing deceleration within a safe range of values. An arresting bed typically includes an entry region (52) of a depth increasing from 9 to 24 inches formed of blocks having a first compressive gradient strength. A second region (54), which may be tapered into the first region and increase in depth to 30 inches, is formed of blocks having a greater compressive gradient strength. An aircraft thus experiences increasing drag forces while it travels through the bed, to provide an arresting capability suitable for a variety of aircraft. A protective hardcoat layer (62) of cellular concrete of strength greater than the blocks overlays the blocks to enable service personnel to walk on the bed without damage. Arresting bed systems may be provided in alternative configurations, such as a bed formed of an aggregate including pieces of cellular concrete with or without interspersed pieces of other compressible material and covered by a hardcoat layer.

IPC 1-7
E01C 9/00; **B64F 1/02**

IPC 8 full level
B64F 1/00 (2006.01); **B64F 1/02** (2006.01); **E01C 9/00** (2006.01)

CPC (source: EP KR US)
B64F 1/025 (2013.01 - EP US); **E01C 9/00** (2013.01 - KR); **E01C 9/007** (2013.01 - EP US)

Citation (search report)
See references of WO 9835099A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
WO 9835099 A1 19980813; AT E333007 T1 20060815; AU 6650898 A 19980826; AU 725485 B2 20001012; DE 69835192 D1 20060824; DE 69835192 T2 20070614; EP 0910703 A1 19990428; EP 0910703 B1 20060712; JP 2000511609 A 20000905; JP 3868504 B2 20070117; KR 100575379 B1 20061110; KR 20000064863 A 20001106; NO 333650 B1 20130805; NO 984668 D0 19981006; NO 984668 L 19981203; NZ 332540 A 20000728; TR 199802010 T1 19990421; TR 200101951 T2 20020621; US 5885025 A 19990323

DOCDB simple family (application)
US 9802326 W 19980206; AT 98908481 T 19980206; AU 6650898 A 19980206; DE 69835192 T 19980206; EP 98908481 A 19980206; JP 53491898 A 19980206; KR 19980707962 A 19981007; NO 984668 A 19981006; NZ 33254098 A 19980206; TR 200101951 T 19980206; TR 9802010 T 19980206; US 79697097 A 19970207